

DMX Decoder

AL-60-03-0007



The DMX Decoder translates the digital signals from DMX color controllers, such as the Nicolaudie series, into the analog signal used by Radialux™ RGB and RGB-W 24V LED tape lights. This powerful decoder supports large installations with a clean, consistent signal and is also easy to address with the digital interface.

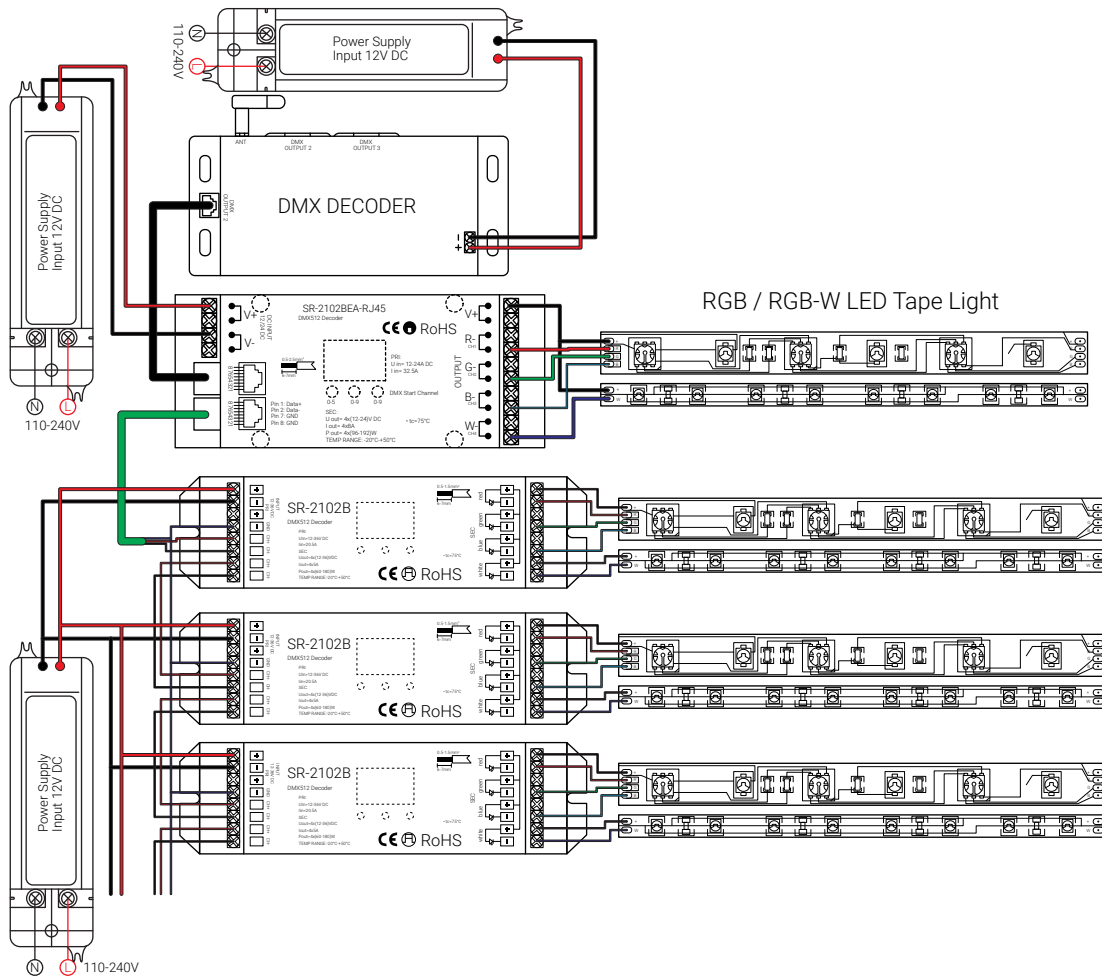
- Input Voltage: 12-36V DC
- Max. Wattage: 8A per channel
- Output Voltage: 192W (24V)
- Constant Voltage
- Dimensions: 6.4 x 2.4 1.3 in.
- Power Source: 24V Non-Dimmable Driver

Maximum total amount of tape that can be connected to the DMX Decoder (note: observe max. run lengths for individual sections as stated on Radialux tape specification sheets):

- Radialux 2.2 RGB: 262 ft.
- Radialux 4.4 RGB: 131 ft.
- Radialux 4.4 RGB-W: 87 ft.

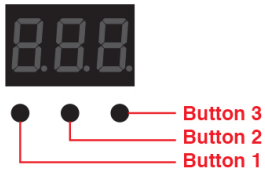


WIRING DIAGRAMS



OPERATION

Setting DMX Decoder Address



Button 1 sets the "hundreds place"

Button 2 sets the "tens place"

Button 3 sets the "ones place"

The address values cannot exceed 512.

Turn on the power of the DMX Decoder.



Choose the Channel

Press **Button 2** and **Button 3** at the same time for 2 seconds, and the channel digital display will flash. Then press **Button 1** to choose 1/2/3/4: 3 means three output channels total (for RGB), 4 means four total channels (for RGB-W). Press any button for 2+ seconds to confirm the 1, 2, 3 or 4 channels. The factory preset default is 4 channels.

NOTE:

- When selecting one channel, set all four channels to the same address: 001.
- When selecting two channels, set channels one and three to the same address 001, and channels two and four to 002.
- When selecting three channels, set channels 1, 2, 3 to 001, 002, 003, and channel 4 to 001
- When selecting four channels, set channels 1, 2, 3, 4 to 001, 002, 003, 004.

Set the DMX Address

Press Button 1 for 2 seconds, and the digital display will flash to set the required DMX address, then press any button for 2+ seconds to confirm.



Choose the PWM Frequency

- Press **Button 1** and **Button 3** at the same time for 2 seconds, and the channel digital display will flash and display "P_c".
- "P" means PWM frequency, press **Button 1** to show "1", which means 1500Hz, "2" means 200Hz.
- "c" means dimming options, press **Button 3** to show "1", which means logarithmic dimming, while "2" means linear dimming.
- The factory preset default is PWM frequency 200Hz with linear dimming, with the display reading "2_2".

SAFETY AND WARNINGS

- This product should be installed and serviced by a qualified technician.
- Do not expose this unit to water. When installed outdoors, ensure it is mounted in a waterproof enclosure.
- Always mount this unit in an area with proper ventilation to avoid overheating.
- Never connect any cables while power is on.
- Before switching power on, ensure connections are correct to avoid short circuits.

TROUBLESHOOTING

- Check that the output voltage of any LED power supplies used comply with the working voltage of the product.
- Ensure that all cable connections are secure.